NLDAS Teleconference Minutes, July 12, 2005

Next telecon: 3:00-5:00 PM EST, Tuesday, August 16, 2005

NLDAS forcing data

The NLDAS forcing data from 1996 to present can be accessed via
anonymous ftp to nomad4.ncep.noaa.gov
After login, type "passive" and Enter
cd /pub/ldas1/nldas/forcing for the forcing from 2002 to present
cd /pub/ldas1/nldas/forcing2 for the forcing from 1996 to 2001

This ftp site also allows access from web browser.
ftp://nomad4.ncep.noaa.gov

Brian Cosgrove is preparing retrospective forcing data from 1979 to present using NCEP Regional Reanalysis.

LSM upgrades/recalibration

- **NCEP** - Noah Version 2.7.1 is delivered which includes several new physics such as frozen soil process, snow emissivity, and re-calibrated vegetation parameters.

- **GSFC** - Will confirm by next telecon whether to use MOSAIC, CLM2, or Catchment.

- **Princeton** - VIC is re-calibrated to improve the overestimated runoff and underestimated ET as found in the GCIP paper.

NLDAS server

We are still working on the new LDAS server "tempest.ncep.noaa.gov". We hope to make it available by August and will provide accounts to LDAS modelers and users. When the server is ready, the modeling groups will port the latest version of code, script, and static data to tempest and work with Jesse Meng/Helin Wei to build the executable. The next step is to execute all the LSMs under the LIS infrastructure.

Validation

The NLDAS validation software developed by Alan Robock and Lifang Luo using OK Mesonet and ARM data will be resumed by NCEP on tempest with the addition of Tilden Meyers's GEWEX/ATDD surface flux observation.

NOAA/NASA/DoD Joint Center for Satellite Data Assimilation (JCSDA)

LDAS will collaborate with the JCSDA land PIs to implement the to-be-developed land data and data assimilation tools including:

- Vegetation parameters (Mark Friedl, Kevin Gallo)
- Snow assimilation (Xubin Zeng)
- Snow properties retrieval (Eric Wood)
- Community Radiative Transfer Model (CRTM, Fuzhong Weng)
- Ensemble Kalman Filter (Paul Houser, Xiwu Zhan)
- Microwave radiance assimilation (Ben Ruston)